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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 14836-53545
INTERNATIONAL APPLICATION NO. PCT/EP2004/006916	INTERNATIONAL FILING DATE 25 June 2004	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) Unassigned 10/962308 PRIORITY DATE CLAIMED 25 June 2003
TITLE OF INVENTION OPTIMIZED DETERMINATION OF VOLTAGE CHANGES USING A VOLTAGE-SENSITIVE DYE		
APPLICANT(S) FOR DO/EO/US Bernd Kuhn, Winfried Denk, Gern Hübener, and Peter Fromherz		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input checked="" type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.55) Unassigned 10/562308		INTERNATIONAL APPLICATION NO. PCT/EP2004/006916		ATTORNEY'S DOCKET NUMBER 14836-53545	
20. Other items or information: PCT Request Form of June 25, 2004; Credit Card Authorization in the Amount of \$500.00; Authorization to charge and fee deficiencies or credit any overpayments to Deposit Account; Return Postcard					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) \$300				\$	300.00
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0					
All other situations \$200					200.00
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))				\$	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100					
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400					
All other situations \$500					500.00
TOTAL OF 21, 22 and 23 =					\$1,000.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
96 - 100 =	0 /50 =		x \$250	\$	0.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	11 - 20 =	0	x \$ 50	\$	
Independent claims	2 - 3 =	0	x \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	1000
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					\$500.00
SUBTOTAL =				\$	\$500.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$	500.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$	500.00
				Amount to be refunded:	\$
				Amount to be charged	\$

10/562308

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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IAP17 Rec'd PCT/PTO 23 DEC 2005

- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 50-3537 in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3537. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Morris, Manning & Martin, LLP
1600 Atlanta Financial Center
3343 Peachtree Road NE
Atlanta, Georgia 30326-1044



SIGNATURE

Tim Tingkang Xia, Esq.

NAME

45,242

REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/562308

IAP17 Rec'd PCT/PTO 23 DEC 2005

Applicant: Bernd Kuhn et al.

Docket: 14836-53545

Title: Optimized Determination of Voltage Change Using A Voltage-Sensitive Dye

CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EV743608000US

Date of Deposit: December 23, 2005

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Alexandria, VA 22313-1450

Customer No. 24728

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Letter to the United State Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (3 pages)
- ☒ Copy of International Publication No. WO 2005/001448 A1, in the English language, with ISR (109 pages)
- ☒ Copy of PCT Request PCT/RO/101 (5 pages)
- ☒ Preliminary Amendment (5 pages)
- ☒ Application Data Sheet (4 pages)
- ☒ Credit Card Authorization Form-2038 in the Amount of \$500.00 (1 page)
- ☒ Authorized to charge any additional fee(s) or underpayments of fee(s) or credit any overpayments under 37 CFR 1.16 and 1.17 to Deposit Account No. 50-3537 (1 page)
- ☒ Return postcard

Please send all Correspondence to:
Tim Tingkang Xia, Esq.
MORRIS, MANNING & MARTIN, LLP
1600 Atlanta Financial Center
3343 Peachtree Road NE
Atlanta, Georgia 30326
404-233-700 (Main)
404.495.3678 (Direct)
Customer No. 24728

By: 

Name: Tim Tingkang Xia

Reg. No.: 45,242

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(PTO TRANSMITTAL - NEW FILING)

S/N Unassigned

10/562308

PATENT

IAP17 Rec'd PCT/PTO 23 DEC 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Bernd Kuhn, et al.	Express Mail Label No.	EV743608000US
Serial No.:	Unassigned	Group Art Unit:	Unassigned
Filed:	December 23, 2005	Docket No.:	14836-53545
Title:	OPTIMIZED DETERMINATION OF VOLTAGE CHANGES USING A VOLTAGE-SENSITIVE DYE		

CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EV743608000US

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Name: Tim Tingkang Xia

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December 23, 2005

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Dear Sir:

Please charge any additional fees or credit overpayments to **Deposit Account**

No. 50-3537.

Respectfully submitted,

MORRIS, MANNING & MARTIN, LLP

December 9, 2005


Tim Tingkang Xia, Esq.

Reg. No. 45,242

Attorney for Assignee on the Record

TTX

MORRIS, MANNING & MARTIN, LLP
1600 Atlanta Financial Center
3343 Peachtree Road, N.E.
Atlanta, Georgia 30326-1044
Phone: 404-233-7000
Direct: 404-495-3678
Customer No. 24728